

Algebra Two
Review of 2.4

Name: _____

Write an equation of the line that has the given slope and y-intercept.

1. $m = 4, b = -4$

2. $m = -6, b = 3$

3. $m = \frac{4}{3}, b = 6$

4. $m = -\frac{1}{2}, b = -4$

5. $m = 8, b = 0$

6. $m = 0, b = 5$

Write an equation of the line that passes through the given point and has the given slope.

7. $(2, 1), m = -2$

8. $(-4, 3), m = 5$

9. $(7, -5), m = 1$

10. $(-1, -10), m = 3$

11. $(\frac{1}{2}, 4), m = -8$

12. $(\frac{2}{3}, 0), m = -4$

Write an equation of the line that passes through the given points.

13. $(-2, 1), (2, 4)$

14. $(-1, 3), (1, -1)$

15. $(-3, -1), (3, 2)$

16. $(4, -2), (6, -3)$

17. $(1, 5), (-4, 0)$

18. $(3, -7), (-2, 3)$

19. $(-6, 1), (-5, 4)$

20. $(-3, -2), (4, 1)$

21. $(10, -4), (6, -10)$

Write an equation of the line that passes through the given point and is parallel to the given line.

7. $(1, 3), y = 2x - 1$

8. $(-3, 2), y = -4x + 3$

9. $(1, 1), y = \frac{1}{2}x - 7$

10. $(-3, 1), y = -\frac{2}{3}x + 4$

11. $(7, -3), y = 8$

12. $(5, 2), x = 2$

Write an equation of the line that passes through the given point and is perpendicular to the given line.

13. $(-2, 1), y = 2x + 5$

14. $(1, -1), y = -x + 3$

15. $(-3, -5), y = 12 + x$

16. $(3, -4), y = \frac{1}{2}x - 8$

17. $(10, -12), y = -\frac{3}{4}x + 1$

18. $(4, -9), y = 14$